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2863

DATE MAILED: 02/28/2008

# NOTICE OF ALLOWANCE AND FEE(S) DUE

M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10/535,370
 05/18/2005
 Wolfgame Buhr
 DEO 20274 US
 16/4

TITLE OF INVENTION: CIRCUIT ARRANGEMENT WITH NON-VOLATILE MEMORY MODULE AND METHOD OF EN-/DECRYPTING DATA IN THE NON-VOLATILE MEMORY MODULE

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1440        | \$300               | \$0                  | \$1740           | 05/28/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR INSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| appropriate. All further<br>indicated unless correcte<br>maintenance fee notifical  | correspondence including<br>ad below or directed oth   | or transmitting the 1880<br>ig the Patent, advance of<br>terwise in Block 1, by (a  | rders and notification of r<br>a) specifying a new corres  | naintenance fees w<br>pondence address;  | ill be<br>and/or                              | mailed to the current<br>(b) indicating a sepa   | correspondence address as<br>trate "FEE ADDRESS" for   |
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|   | ENCE ADDRESS (Note: Use Blo  | ock 1 for any change of address)  | Note<br>Feet<br>paps<br>have   | e: A certificate of a<br>s) Transmittal. This<br>ers. Each additional<br>a its own certificate                       | nailing<br>certil<br>paper<br>of mai          | can only be used for<br>icate cannot be used for<br>such as an assignment<br>ling or transmission.                           | or domestic mailings of the<br>for any other accompanying<br>nt or formal drawing, must  |
| M/S41-SJ  | 7590 02/28 CTUAL PROPERT   |   |  | Cont   | ificate                                       | of Mailing or Trans  |  |
| 1109 MCKAY I<br>SAN JOSE, CA  |  |   |  |  |   |  | (Depositor's name)   |
|   |  |   |  |  |   |  | (Signature)  |
|   |  |   |  |  |   |  | (Date)   |
| APPLICATION NO.   | FILING DATE  |   | FIRST NAMED INVENTOR   |  | ATTO  | RNEY DOCKET NO.  | CONFIRMATION NO.   |
| 10/535,370<br>TITLE OF INVENTION<br>IN THE NON-VOLATII  |  |   | Wolfgang Buhr<br>LATILE MEMORY MO  | DULE AND METI  |   | DE02 0274 US<br>DF EN-/DECRYPTIN   | 1614<br>G DATA   |
| APPLN. TYPE   | SMALL ENTITY   | ISSUE FEE DUE   | PUBLICATION FEE DUE  | PREV. PAID ISSUE   | FEE   | TOTAL FEE(S) DUE   | DATE DUE   |
| nonprovisional  | NO   | \$1440  | \$300  | \$0 \$1740   |   | 05/28/2008   |  |
| EXAM  | INER   | ART UNIT  | CLASS-SUBCLASS   |  |   |  |  |
| KHUU, HIE?  | N DIEU THI   | 2863  | 702-108000   |  |   |  |  |
| "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A  | ondence address (or Cha<br>3/122) attached.<br>ication (or "Fee Address'<br>2 or more recent) attach<br>ND RESIDENCE DATA<br>ess an assignee is identi<br>h in 37 CFR 3.11. Comp | nge of Correspondence  'Indication form ed. Use of a Customer A TO BE PRINTED ON  | 2. For printing on the p (1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2-registered patent attorney or instead, no name will be the PATENT (print or type data will appear on the p T a substitute for filing an (B) RESIDENCE: (CTTY | 3 registered patent<br>rely, e firm (having as a<br>sgent) and the name<br>meys or agents. If a<br>printed.  te) tet | members of use is ic                          | er a 2   | ocument has been filed for   |
| Please check the appropri   | iate assignee category or  | categories (will not be pr  | inted on the patent):  | Individual 🚨 Co  | rporati                                       | on or other private gro  | oup entity 🚨 Government  |
| Advance Order - #   | o small entity discount p  | permitted)  | o. Payment of Fee(s): (Plea<br>A check is enclosed.<br>Payment by credit car<br>The Director is hereby<br>overpayment, to Depo   | d. Form PTO-2038   | is atta                                       | ched.  | shown above) ficiency, or credit any n extra copy of this form).   |
|   | s SMALL ENTITY statu   | is. See 37 CFR 1.27.  | ☐ b. Applicant is no lon   |  |   |  |  |
| NOTE: The Issue Fee and<br>interest as shown by the i   | d Publication Fee (if requeecords of the United Sta  | ired) will not be accepte<br>tes Patent and Trademark   | d from anyone other than t<br>Office.  | he applicant; a regis  | tered :                                       | attorney or agent; or th   | ne assignee or other party in  |
| Authorized Signature  |  |   |  | Date   |   |  |  |
| Typed or printed name   | ·  |   |  | Registration N   | D   |  |  |
| This collection of inform<br>an application. Confident<br>submitting the complete<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | ation is required by 37 C<br>tiality is governed by 35<br>I application form to the<br>ons for reducing this but<br>irginia 22313-1450. DC<br>13-1450.                           | FR 1.311. The informatis<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>den, should be sent to the<br>ONOT SEND FEES OR | on is required to obtain or r<br>1.14. This collection is est<br>depending upon the indiv<br>e Chief Information Office<br>COMPLETED FORMS TO  | etain a benefit by th<br>imated to take 12 n<br>idual case. Any co<br>r, U.S. Patent and<br>O'THIS ADDRESS           | ne publ<br>ninutes<br>nment<br>Fraden<br>SENI | tic which is to file (and<br>to complete, including<br>s on the amount of tin<br>nark Office, U.S. Dep<br>D TO: Commissioner | by the USPTO to process)<br>gg gathering, preparing, and<br>me you require to complete<br>artment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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SAN JOSE, CA 95131

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#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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| APPLICATION NO.        | F         | ILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.             | CONFIRMATION NO. |  |  |
|------------------------|-----------|------------|----------------------|---------------------------------|------------------|--|--|
| 10/535,370             |           | 05/18/2005 | Wolfgang Buhr        | DE02 0274 US                    | 1614             |  |  |
| 65913                  | 7590      | 02/28/2008 |                      | EXAM                            | IINER            |  |  |
| NXP, B.V.              | NXP, B.V. |            |                      | KHUU, HIEN DIEU THI             |                  |  |  |
| NXP INTELLE            | CTUAL F   | ROPERTY DE | PARTMENT             | ART UNIT                        | PAPER NUMBER     |  |  |
| M/S41-SJ<br>1109 MCKAY | DRIVE     |            |                      | 2863<br>DATE MAII ED: 02/28/200 | 18               |  |  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

#### 10/535,370 BUHR, WOLFGANG Notice of Allowability Examiner Art Unit CINDY D KHUII 2863

Application No.

Applicant(s)

| The MAILING DATE of this communication appears on the cover sheet with the correspondence address                                      |
|--|
| All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included                      |
| nerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS |
| NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative         |
|  |

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- This communication is responsive to 1/8/08.
- 2. The allowed claim(s) is/are 1-5.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - b) ☐ Some\* c) ☐ None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
    - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413). Paper No./Mail Date
- 7. 

  Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_\_\_.

/John E Barlow Jr./ Supervisory Patent Examiner Art Unit 2863

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Application/Control Number: 10/535,370

Art Unit: 2863

## DETAILED ACTION

## Pertinent Art Cited

The following US Patent Applications reveal the current state of the art:

Kocher et al. (US 6,289,455) teaches of a circuit arrangement for electronic data processing comprising (Fig. 2):

at least one non-volatile memory module (265) for storing encrypted data to be protected against unauthorized access (Column 9, lines 40-41):

at least one memory module interface logic circuit (260) in electronic communication with the nonvolatile memory module (Fig. 2); said at least one memory module interface circuit being for addressing the non-volatile memory module, for writing the data to the non-volatile memory module, or for reading out the data from the non-volatile memory module (Column 9, lines 40-41);

at least one code Read Only Memory (ROM) module (245) for storing and/or supplying at least one ROM code (Column 9, line 33); and

at least one code ROM module interface logic circuit (240-225-200) in electronic communication with the code ROM module (Fig. 2) for addressing the code ROM module and for reading out the ROM code from the code ROM module (Column 9, lines 28-41).

However, Kocher does not teach at least wherein the at least one ROM code stored in the code ROM module is used to generate at least one key code for encrypting or decrypting data being written to the non-volatile memory module or data being read from the non-volatile memory module, said at least one ROM code further being used for decrypting address data coming from a central processing unit.

Note: See Applicant arguments/remarks dated 01/08/2008.

## Allowable Subject Matter

Claims 1-5 are allowed

Application/Control Number: 10/535,370

Art Unit: 2863

The following is a statement of reasons for the indication of allowable subject matter:

The primary reason for the allowance of claim 1 is the inclusion of the limitation "wherein the at least one ROM code stored in the code ROM module is used to generate at least one key code for encrypting or decrypting data being written to the non-volatile memory module or data being read from the non-volatile memory module, said at least one ROM code further being used for decrypting address data coming from a central processing unit". The prior art of record, taken alone or in combination, fails to disclose or render obvious.

Claims 2-5 are allowed due to their dependency on claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Fax/Telephone Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cindy D. Khuu whose telephone number is (571) 272-8585. The examiner can normally be reached on M-F. 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Art Unit: 2863

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chk/ 2/12/2008 /John E Barlow Jr./ Supervisory Patent Examiner, Art Unit 2863